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The Secretary was instructed to have the medals for Messrs. GALE, BORRELLY, and SCHAUMASSE engraved and duly forwarded.

In this connection there was some discussion among the Directors as to the proper course to pursue in the bestowal of the medal when a comet, discovered in good faith as "unexpected," proves, on investigation, to be a known periodic. On motion of CRAWFORD, seconded by TOWNLEY, the Comet-Medal Committee was instructed to take this matter under consideration and report at some future meeting.

Thanks were voted to Professor W. E. COOKE, government astronomer of the Sydney Observatory, N. S. W., and to Professor GEORGE E. HALE, director of the Mount Wilson Solar Observatory, for the donation of valuable copies of back numbers of the *Publications*.

Adjourned.

D. S. RICHARDSON,
Secretary.

MINUTES OF THE MEETING OF THE ASTRONOMICAL SOCIETY OF
THE PACIFIC, HELD IN CHABOT HALL, OAKLAND,
ON NOVEMBER 30, 1912, AT 8:00 P. M.

By courtesy of the School Department of the City of Oakland, the hall of the Chabot Observatory was placed at the disposition of the Society for this meeting.

The meeting was called to order by President CURTIS. There being no routine matters for consideration, he introduced, as the first speaker of the evening, Mr. CHARLES BURCKHALTER, director of the Chabot Observatory.

Mr. BURCKHALTER's subject was "Some Educational Stellar Photography," which was illustrated with a number of interesting lantern slides, showing very novel and unusual results.

His problem has been to photograph wide sections of the sky in such a way as to show entire constellations as they appear to the naked eye, a task beset with many difficulties. How these were partially overcome, was most pleasingly and instructively told by the popular speaker.

Dr. H. D. CURTIS, of the Lick Observatory, followed with an illustrated paper on "The Nebulæ," which held the fascinated attention of all present. What are these mysterious clouds in space? What are the laws of their being? Why are they luminous? May the far-distant ones, which no power of the telescope or of the camera can resolve into stars, be not other universes, as vast, perhaps, or vaster than our own? Dr. CURTIS did not attempt to answer the many speculations suggested by his nebulous subject, but he had no difficulty in investing it with deep interest and charm.

Adjourned.

D. S. RICHARDSON,
Secretary.